

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number
WO 2005/045434 A2

(51) International Patent Classification⁷: **G01N 33/574,**
C12Q 1/68

SCHOCH, Claudia [DE/DE]; Springerstrasse 8, 81477
München (DE).

(21) International Application Number:
PCT/EP2004/012460

(74) Common Representative: ROCHE DIAGNOSTICS
GMBH; BURGER, Alexander, Patent Department (TR-E),
Postfach 11 52, 82372 Penzberg (DE).

(22) International Filing Date:
4 November 2004 (04.11.2004)

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03025343.9 4 November 2003 (04.11.2003) EP

(71) Applicant (*for DE only*): ROCHE DIAGNOSTICS
GMBH [DE/DE]; Sandhofer Strasse 116, 68305
Mannheim (DE).

(71) Applicant (*for all designated States except DE, US*):
F.HOFFMANN-LA ROCHE AG [CH/CH]; Grenzacher-
strasse 124, CH-4070 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): HAFLERLACH,
Torsten [DE/DE]; Springerstrasse 8, 81477 München
(DE). DUGAS, Martin [DE/DE]; Michael-Fischer-
Platz 6, 94469 Deggendorf (DE). KERN, Wolfgang
[DE/DE]; Hanfelder Strasse 101, 82319 Starnberg (DE).
KOHLMANN, Alexander [DE/DE]; Schwarzstrasse
14, 92318 Neumarkt (DE). SCHNITTGER, Susanne
[DE/DE]; Saalburgstrasse 2a, 81375 Muenchen (DE).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/045434 A2

(54) Title: METHOD FOR DISTINGUISHING AML SUBTYPES WITH RECURRING GENETIC ABERRATIONS

(57) Abstract: Disclosed is a method for distinguishing AML subtypes with recurring genetic aberrations t(8;21), t(15;17), t(11q23)/MLL, inv(3)/t(3,3), inv(16), AML_komplex, trisomy 8 sole, trisomy 11 sole, trisomy 13 sole, monosomy 7 sole, del(5q) and/or del(9q) in a sample by determining the expression level of markers, as well as a diagnostic kit and an apparatus containing the markers.